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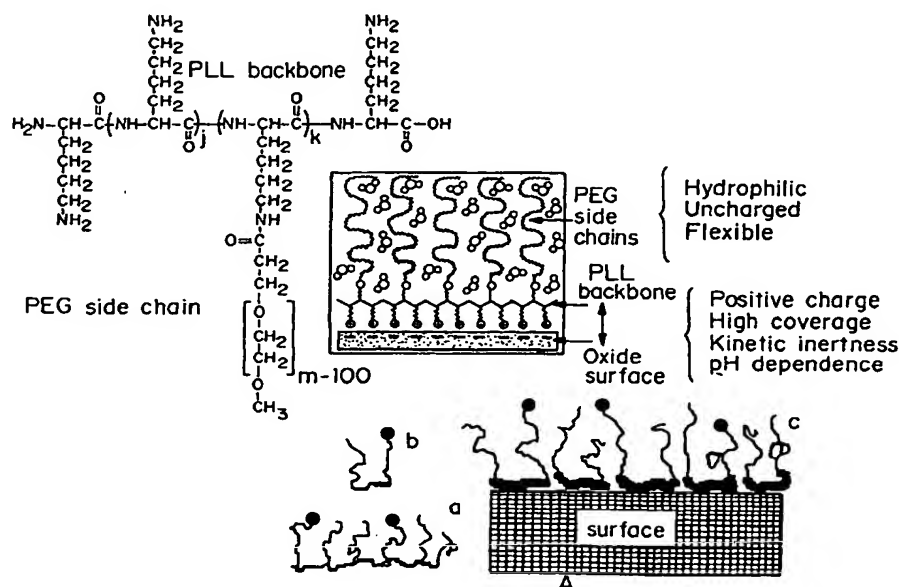
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(54) Title: ENVIRONMENTALLY COMPATIBLE ADDITIVES FOR AQUEOUS LUBRICANTS



(57) Abstract: Lubricating compositions, containing non-modified and modified multifunctional, polyionic copolymers and an aqueous lubricating medium, and methods for making and using such compositions are described herein. The lubricating compositions are applied to metal oxide surfaces, which are in contact with each other. The copolymers can serve as a surface protective boundary layer for the sliding surfaces, or they can also be used for the immobilization of further molecules, which can modify the tribological properties of the surfaces.

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US CL : 427/430.1, 435, 443.2; 428/411.1, 457, 458, 459, 474.4, 478.2

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## B. FIELDS SEARCHED

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U.S. : 427/430.1, 435, 443.2; 428/411.1, 457, 458, 459, 474.4, 478.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,536,573 A (RUBNER et al.) 16 July 1996 (16.07.1996), column 6, line 11-column 10, line 25 and the figures.	1, 2, 5, 11, 12, 14, 15
A	US 5,627,233 A (HUBELL et al.) 06 May 1997 (06.05.1997).	1-15
A	US 5,462,990 A (HUBBELL et al.) 31 October 1995 (31.10.1995).	1-15

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☐ See patent family annex.

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